

In the Claims:

Please cancel claim 25 (claims 9-21 were previously canceled). Please add new claim 34. The following listing of claims will replace all prior versions, and listings, of claims in the application. Currently amended claims are shown with additions underlined and deletions in ~~strikethrough~~ text. No new matter is added by this amendment to the claims.

Claim 1 (Currently amended) A method, comprising:

dispensing a droplet, the droplet having a flight path;

modifying at least one of a direction, a velocity or ~~and~~ an acceleration of the droplet along its flight path using an optical field; and

disposing the droplet on a surface of a medical device after the modifying.

Claim 2 (Currently amended) The method of claim 1, wherein:

the modifying includes modifying the velocity of the droplet to substantially zero temporarily at a position along a the flight path.

Claim 3 (Previously presented) The method of claim 1, wherein:

the droplet is included within a plurality of droplets;

the dispensing includes dispensing the plurality of droplets;

the modifying includes modifying the direction of at least one droplet from the plurality of droplets on a per-droplet basis using the optical field; and

the disposing includes disposing the plurality of droplets on the medical device after the modifying the direction of the plurality of droplets.

Claim 4 (Previously presented) The method of claim 1, wherein:

the droplet is included within a plurality of droplets;

the dispensing includes dispensing the plurality of droplets, the dispensing of the plurality of droplets defines a first plume profile;

the modifying includes modifying the direction of the plurality of droplets using the optical field, the modifying defines a second plume profile different from the first plume profile; and

the disposing includes disposing the plurality of droplets having the second plume profile on the medical device after the modifying.

Claim 5 (Currently amended) A method, comprising:

dispensing a first plurality of droplets, the first plurality of droplets having a flight path;

modifying a direction of the first plurality of droplets along their flight path using a first optical field;

disposing the first plurality of droplets on a medical device after modifying the direction of the first plurality of droplets;

dispensing a second plurality of droplets, the second plurality of droplets having a flight path, a droplet from the second plurality of droplets having a size different from a size of a droplet from the first plurality of droplets; and

modifying the direction of the second plurality of droplets along their flight path using a second optical field.

Claim 6 (Previously presented) The method of claim 5, further comprising disposing the second plurality of droplets on the medical device after modifying the direction of the second plurality of droplets such that the first plurality of droplets and the second plurality of droplets form interleaving zones on the medical device.

Claim 7 (Currently amended) A method, comprising:

dispensing a first droplet, the first droplet having a flight path;

modifying at least one of a direction, a velocity or and an acceleration of the first droplet along its flight path using an optical field;

disposing the first droplet on a surface of a medical device after the modifying of the first droplet;

dispensing a second droplet at a time period at least a portion of which overlaps with a time period in which the first droplet is dispensed, the second droplet having a flight path;

modifying at least one of a direction, a velocity or and an acceleration of the second droplet along its flight path using the optical field; and

disposing the second droplet on the medical device after the modifying of the second droplet.

Claim 8 (Previously presented) The method of claim 7, wherein the direction of the first droplet being modified and the direction of the second droplet being modified such that a position of the first droplet substantially corresponds to a position of the second droplet.

Claims 9-21 (Canceled)

Claim 22 (Currently amended) The method of claim 1, wherein the modifying is based on a measured characteristic of the droplet, the measured characteristic of the droplet is at least one of a size, a weight, a velocity or and a chemical composition of the droplet.

Claim 23 (Currently amended) The method of claim 1, further comprising:

measuring at least one of a direction, a velocity or and an acceleration of the droplet at a first position and at least one of a direction, a velocity or and an acceleration of the droplet at a second position along a path defined by the dispensing of the droplet,

the modifying including modifying at an interaction location based on a difference in the at least one of the direction, the velocity or and the acceleration of the droplet at the first position and the at least one of the direction, the velocity or and the acceleration of the droplet at the second position, the first position being before the interaction location, the second position being after the interaction location.

Claim 24 (Previously presented) The method of claim 1, wherein a composition of the droplet on the surface of the medical device differs from the composition of the droplet after being dispensed.

Claim 25 (Canceled)

Claim 26 (Currently amended) The method of claim 1, wherein a temperature of the droplet at least one of increases or decreases after being dispensed.

Claim 27 (Currently amended) A method, comprising:

dispensing a droplet, the droplet having a flight path;
modifying at least one of a direction, a velocity or and an acceleration of the droplet along its flight path using an optical field, the modifying being based on a characteristic indicating that the droplet is unacceptable for disposing on a surface of a medical device; and
disposing, after the modifying, the droplet on a waste surface different from and proximate to the surface of the medical device.

Claim 28 (Currently amended) The method of claim 27, wherein the characteristic includes at least one of a size, a weight, the velocity, the direction, the acceleration, or and a chemical composition of the droplet.

Claim 29 (Currently amended) The method of claim 27, wherein the modifying includes modifying the velocity of the droplet to substantially zero temporarily at a position along a the flight path.

Claim 30 (Previously presented) The method of claim 27, wherein:

- the droplet is included within a plurality of droplets;
- the dispensing includes dispensing the plurality of droplets;
- the modifying includes modifying the direction of at least two droplets from the plurality of droplets on a per-droplet basis using the optical field; and
- the disposing includes disposing the plurality of droplets on the waste surface after the modifying.

Claim 31 (Currently amended) The method of claim 27, wherein:

- the droplet is included within a plurality of droplets;
- the dispensing includes dispensing the plurality of droplets, the dispensing of the plurality of droplets defines a first plume profile;
- the modifying includes modifying the direction of the plurality of droplets based on a characteristic of the plurality of droplets indicating that the plurality of droplets is unacceptable for disposing on the surface of the medical device, the modifying defines a second plume profile different from the first plume profile, the characteristic of the plurality of droplets including at least one of a size, a weight, the velocity, the direction, the acceleration, or and a chemical composition of the plurality of droplets; and
- the disposing includes disposing the plurality of droplets having the second plume profile on the waste surface after the modifying.

Claim 32 (Currently amended) The method of claim 27, wherein:

the optical field is a first optical field, the droplet is included within a first plurality of droplets,

the dispensing includes dispensing the first plurality of droplets,

the modifying includes modifying the direction of the first plurality of droplets using the first optical field based on a characteristic of the first plurality of droplets indicating that the first plurality of droplet is unacceptable for disposing on the surface of the medical device, the characteristic of the first plurality of droplets including at least one of a size, a weight, a velocity, the direction, an acceleration, or and a chemical composition of the first plurality of droplets, the disposing includes disposing the first plurality of droplets on the waste surface after the modifying the direction of the first plurality of droplets,

the method further comprising:

dispensing a second plurality of droplets, a droplet from the second plurality of droplets having a size different from the size of the droplet from the first plurality of droplets; and

modifying the direction of the second plurality of droplets using a second optical field.

Claim 33 (Currently amended) The method of claim 27, wherein the droplet is a first droplet, the method further comprising:

dispensing a second droplet at a time period at least a portion of which overlaps with a time period in which the first droplet is dispensed, the second droplet having a flight path;

modifying at least one of a direction, a velocity, or and an acceleration of the second droplet along its flight path using the optical field based on a characteristic of the second droplet indicating that the droplet is unacceptable for disposing on the surface of the medical device, the characteristic of the second droplet including at least one of a size, a weight, the velocity, the direction, the acceleration, or and a chemical composition of the second droplet; and

disposing the second droplet on the waste surface after the modifying of the second droplet.

Claim 34 (New) The method of claim 1, wherein the modifying includes modifying in at least one of an x-dimensional direction, a y-dimensional direction, and a z-dimensional direction.